upon it with ſuch a ſtrength as will prevail againſt all that oppoſeth it, as I have ſhewn above.

To the fourth Difficulty I anſwer: That although the uſe of the Pipes be meerly for the conveying of Air: They may nevertheleſs eaſily be fill'd with Water when need requires, and ſo the defects in them may as well be found out as in the Pipes that are uſed for the conveying of Water. This is all I may anſwer at preſent, and I ſhall make an end with aſſureing Mr. *Nuis* that i'le make uſe of his advice when ever he will be pleaſed to give it me.

An anſwer of the ſame to the Author of the perpetual Motion.

IN the laſt papers I publiſhed in *Phil. Tranſact.* N. 184 againſt this perpetual Motion deſcribed in N. 177. I intreated the Author to permit me to ſay nothing as to what alterations he might make in his Engine; reſolving to leave it to others to ſhew him that upon that principle all he can do ſignifies nothing. But I find ſince, in the *Nouvelles de la Republ:* for *December* laſt, that he ſtill perſiſts to urge ſome new contrivances, which being added he conceives his Engine muſt ſucceed. To this I anſwer that I undertook only to ſhew that his firſt device would faile, which yet I ſhould ſcarce have done, if I had thought a diſpute of this nature could have laſted ſo long. To come therefore to the point, where he ſaith that this Engine may well ſucceed without alteration, becauſe he hath tryed with Liquors put into Bellows immerſed in Water: I again ſay that I grant him the truth of the Experiments, but deny the conſequences he would

draw from them, I have already given the reaſons of my diſſent, which this Gentleman is not pleaſed to underſtand. But to end all controverſies he may pleaſe to conſult Mr. *Perrault*, *de la Hire*, or any other at *Paris* well known to be skilled in Hydraulicks: and I doubt not but he will find them of the ſame opinion with Mr. *Boyle*, Mr. *Hook* and other knowing perſons here, who all agree that our Author is in this matter under a miſtake.

Occultatio Saturni a Luna plena, Anno 1687. *Martii* 19*no. mane: obſervata a Dno* Ed. Haines *R. S. S. ad* Totteridg *prope* Londinum, *ſub Latitudine* 51. 39.

Ingruente Eclipſi, ad corrigendum Horologium Oſcillatorium cepit aliquot Altitudines Pollucis. viz.

Horologii H.	m.	ſ.		G.	m.	*Temp. corr* H.	m.	ſ.
12	06	10	*Alt. Pollucis*	28	35	12	12	14
	10	05		28	00			
	13	30		27	28			
	16	47		26	59	12	22	47
1	18	00	☽ *limbus tangebat anſam occid.* ♄*ni*			1	24	00
1	18	30	*Immerſio centri* ♄*ni paulo infra Paludem Maracotin.*			1	24	30
1	19	00	*Jam Saturnus omnino latuit.*			1	25	00
			Eodem die poſt meridiem					
4	01	25	*Altitudo centri Solis.*	20	00	4	7	17
	03	47		19	41			
	06	20		19	18			
	09	05		8	55	4	14	43
			Emerſio ob nubes videri non potuit.					

A Diſ-